## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A magnetic recording medium comprising: a substrate;

an underlayer formed on the substrate;

a magnetic layer formed on the underlayer, wherein the magnetic layer comprising crystal grains having

- (a) an L1<sub>0</sub> structure mainly including Fe and Pt, and
- (b) 0.1 to 50 atomic percent of at least one element selected from the group consisting of Cu, Au, Zn, Sn, Pd and Mn; and

a protective layer formed on the magnetic layer,

wherein the crystal grain has a composition represented by the following formula:

 $(Fe_{1-x}Pt_x)_{100-y}M_y$ 

where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50, M is at least one element selected from the group consisting of Cu, Au, Zn, Sn, Pd and Mn.

Claim 2 (Original): The medium according to claim 1, wherein the substrate is a glass substrate.

Claim 3 (Canceled).

Claim 4 (Currently Amended): The medium according to claim [[3]] 1, wherein x ranges from 0.4 to 0.56, y ranges from 3 to 20.

Claim 5 (Original): The medium according to claim I, wherein the magnetic layer has a thickness of 50 nm or less.

Claim 6 (Currently Amended): A magnetic recording medium comprising: a substrate;

an underlayer formed on the substrate;

a magnetic layer formed on the underlayer, where: the magnetic layer comprising crystal grains having

- (a) an L1<sub>0</sub> structure mainly including Fe and Pd, and
- (b) 0.1 to 50 atomic percent of at least one element selected from the group consisting of Cu, Au, Zn, Sn and Mn; and

a protective layer formed on the magnetic layer,

wherein the crystal grain has a composition represented by the following formula:

 $(Fe_{l-x}Pd_x)_{100-y}M_y$ 

where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50, M is at least one element selected from the group consisting of Cu, Au, Zn, Sn and Mn.

Claim 7 (Original): The medium according to claim 6, wherein the substrate is a glass substrate.

Claim 8 (Canceled).

Claim 9 (Currently Amended): The medium according to claim [[8]] 6, wherein x ranges from 0.4 to 0.56, y ranges from 3 to 20.

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Claim 10 (Original): The medium according to claim 6, wherein the magnetic layer has a thickness of 50 nm or less.

Claim 11 (Currently Amended): A magnetic recording medium comprising: a substrate;

an underlayer formed on the substrate;

a magnetic layer formed on the underlayer, wherein the magnetic layer comprising crystal grains having

- (a) an L1<sub>0</sub> structure mainly including Co and Pt, and
- (b) 0.1 to 50 atomic percent of at least one element selected from the group consisting of Ni, Au and Mn; and

a protective layer formed on the magnetic layer,

wherein the crystal grain has a composition represented by the following formula:

 $(Co_{1-x}Pt_x)_{100-y}M_y$ 

where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50, M is at least one element selected from the group consisting of Ni, Au and Mn.

Claim 12 (Original): The medium according to claim 11, wherein the substrate is a glass substrate.

Claim 13 (Canceled).

Claim 14 (Currently Amended): The medium according to claim [[13]] 11, wherein x ranges from 0.4 to 0.56, y ranges from 3 to 20.

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Claim 15 (Original): The medium according to claim 11, wherein the magnetic layer has a thickness of 50 nm or less.

Claim 16 (Previously Presented): The medium according to claim 1, wherein the crystal grain has a composition represented by the following formula:

$$(Fe_{1-x}Pt_x)_{100-y}Cu_y$$

where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50.

Claim 17 (Previously Presented): The medium according to claim 6, wherein the crystal grain has a composition represented by the following formula:

$$(Fe_{1-x}Pd_x)_{100-y}Cu_y$$

where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50.

Claim 18 (Previously Presented): The medium according to claim 1, wherein the underlayer is made of MgO.

Claim 19 (Previously Presented): The medium according to claim 6, wherein the underlayer is made of MgO.

Claim 20 (Previously Presented): The medium according to claim 11, wherein the underlayer is made of MgO.